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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			IQBAL, KHAWAR		
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ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
	•		2686	10	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)			
Office Action Summary		09/869,29	95	DE BEER, LEON			
		Examiner		Art Unit			
		Khawar Id	ıbal	2686			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED THE MAILING - Extensions of time after SIX (6) MONT - If the period for rep - If NO period for rep - Failure to reply with Any reply received	D STATUTORY PERIOD F DATE OF THIS COMMUNI may be available under the provisions THS from the mailing date of this comm ly specified above is less than thirty (3 bly is specified above, the maximum stain the set or extended period for reply by the Office later than three months a adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evenunication. 0) days, a reply within the statutury period will apply and will, by statute, cause the apply	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from t ication to become ABANDONEL	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).			
Status							
1) Responsi	Responsive to communication(s) filed on						
2a) ☐ This action	This action is FINAL . 2b)⊠ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Cla	ims						
4a) Of the 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s)	<u> </u>						
Application Paper	rs						
9) The speci	fication is objected to by th	e Examiner.					
10)□ The drawi	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant i	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
·	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 l	U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmont(=)							
Attachment(s) 1) Notice of Referen	ces Cited (PTO-892)		4) Interview Summary ((PTO-413)			
2) D Notice of Draftspe	erson's Patent Drawing Review (Posure Statement(s) (PTO-1449 or		Paper No(s)/Mail Da	te atent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9,11-26,30-31, 36-39,44-45,48-51,53-67,70-71,74-77,79-83,85-88 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lorimer (EP 0724371 A1) and further in view of Rabe et al (6138010).

Regarding claim 1 Lorimer teaches a method of operating a mobile telephone (1) in a cellular telephone communications system in which a plurality of service providers provide respective alternative communications channels; comprising the steps of (figs. 1,2);

storing routing information in a look-up table (outgoing call mode) of the mobile telephone (1) such that the table is populated with data in the form of preferred route codes (user preferences, tariff information), each preferred route code being representative of a preferred route for connection to a respective call destination (page 2, lines 6-9,page 3, lines 52-58);

originating an Outgoing telephone call by the input of user generated call destination information (page 3, lines 52-58);

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accessing the look-up table using an address determined at least in part by the call destination information to obtain a selected preferred route code (page 3, lines 52-58,page 4, lines 1-10);

selecting one of the communication channels in accordance with the preferred route code (page 3, lines 10-15) page 4, lines 24-30); and establishing communication for the outgoing telephone call for a call destination corresponding to the call destination information via the selected communication channel of a corresponding selected service provider (page 4, lines 36-38). Lorimer does not specifically periodically scanning received transmissions to identify available communications channels for which the mobile telephone has functional capability and attempting to complete a registration procedure for each available channel; wherein said selecting comprises selecting from those available channel in respect of which registration is completed. In an analogous art, Rabe et al teaches periodically scanning received transmissions to identify available communications channels for which the mobile telephone has functional capability (col. 5, line 50-col. 6, line 26) and attempting to complete a registration procedure for each available channel (col. 6, lines 43-67); wherein said selecting comprises selecting from those available channel in respect of which registration is completed (col. 8, lines 10-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Lorimer by specifically adding feature periodically scanning received transmissions to identify available communications channels in order to enhance

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system performance of registration to increasing the efficiency of the system as taught by Rabe et al.

Regarding claim 48 Lorimer teaches a mobile telephone (1) for use in a cellular telephone communications system in which a plurality of service providers provide respective alternative communications channels (80,81,82,83); the mobile telephone comprising (figs. 1,2);

a look-up table storing routing information (user preferences, tariff information) such that the table is populated with data in the form of preferred route codes, each preferred route code being representative of a preferred route for connection to a respective call destination (page 2, lines 6-9,page 3, lines 52-58);

input means for originating an outgoing telephone call by the input of user generated call destination information (page 3, lines 52-58);

accessing means for accessing the look-up table using an address determined at least in part by the call destination information to obtain a selected preferred route code (page 3, lines 52-58,page 4, lines 1-10);

channel selecting means for selecting one of the communication channels in

accordance with the preferred route code (page 3, lines 10-15) page 4, lines 24-30); and communication means for establishing communication for the outgoing telephone call for a call destination corresponding to the call destination information via the selected communication channel of a corresponding selected service provider (page 4, lines 36-

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identify available communications channels for which the mobile telephone has functional capability and attempting to complete a registration procedure for each available channel; wherein said selecting comprises selecting from those available channel in respect of which registration is completed. In an analogous art, Rabe et al teaches periodically scanning received transmissions to identify available communications channels for which the mobile telephone has functional capability (col. 5, line 50-col. 6, line 26)and attempting to complete a registration procedure for each available channel (col. 6, lines 43-67); wherein said selecting comprises selecting from those available channel in respect of which registration is completed (col. 8, lines 10-22). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Lorimer by specifically adding feature periodically scanning received transmissions to identify available communications channels in order to enhance system performance of registration to increasing the efficiency of the system as taught by Rabe et al.

Regarding claim 83 Lorimer teaches a portable storage medium for use in a mobile telephone, the storage medium storing a look-up table populated with data in the form of preferred route codes, each preferred route code being representative of a preferred route for connection to a respective call destination (page 3, lines 52-58, page 4, lines 20-22).

Regarding claim 2 Lorimer teaches wherein the preferred route codes comprise the results of a route selection decision by a control center remote from the mobile telephone (page 3, lines 52-58, page 4, lines 20-22).

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Regarding claims 3,50 Lorimer teaches wherein the decision is based at least in part on least-cost (page 2, lines 22-24, page 4, lines 20-35).

Regarding claim 4 Lorimer teaches wherein the decision is based at least in part on performance of at least one network selected in accordance with the preferred route (page 4, lines 27-35).

Regarding claim 5 Lorimer teaches wherein the preferred route codes further determine a choice of a further network for forward connection between a network of the service provider of the selected communication channel and the call destination via the further network (page 4, lines 10-35).

Regarding claims 6,49 Lorimer teaches wherein the control center collates billing information in respect of services provided by the service provider and one or more further service providers of the further networks in facilitating the making of the call to the call destination (page 4, lines 15-35).

Regarding claim 7 Lorimer teaches wherein the mobile telephone adds a prefix code to the user generated call destination information (page 4, lines 5-14).

Regarding claim 8 Lorimer teaches wherein the prefix code includes a customer identification field containing user specific identification data (page 3, lines 20-24, page 4, lines 5-19).

Regarding claims 9,51 Lorimer teaches wherein the prefix code includes a charging information field for identifying a control entity to be billed by one or more service providers corresponding to the selected network connection route (page 3, lines 20-24, page 4, lines 5-35).

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Regarding claims 11,53 Lorimer teaches electing (64) from the available channels a home channel for receipt of incoming calls (page 4, lines 43-44).

Regarding claims 12,54 Lorimer teaches electing from the available channels an update receiving channel for receipt of updating information broadcasts (page 4, lines 5-19).

Regarding claims 13-16,55-57 Lorimer teaches wherein the look-up table is stored in a portable storage medium removable installed in the mobile telephone (page 4, lines 7-9).

Regarding claims 17,58 Lorimer teaches periodically updating the data stored in the look-up table by receiving data blocks each containing a respective portion of updated data and, for each received data block, overwriting a corresponding portion of the existing data with updated data from the received block (page 4, lines 5-35).

Regarding claims 18,59 Lorimer teaches a routing table containing the preferred route codes (page 4, lines 5-35); a carrier selection table containing, for each preferred route code, a list in order of priority of carrier selections to be used, subject to availability (page 4, lines 5-35); and a carrier access table containing, for each carrier selection, a channel selection identifying a communications channel provided by a service provider of the mobile telephone system and a prefix code to be added to the dialed number identifying a further network for routing the call (page 4, lines 5-35).

Regarding claims 19,60 Lorimer teaches wherein the look-up table further comprises a carrier availability table containing information indicating which of the channels are currently available (page 4, lines 5-35).

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Regarding claims 20-22,61-63 Lorimer teaches addressing the routing table to obtain a preferred route code (page 4, lines 5-35); using the preferred route code to address the carrier selection table to obtain a list of carrier selections (page 4, lines 5-35); addressing the carrier access table using the first carrier selection on the list to obtain the prefix code and channel selection data for the first channel selection (page 4, lines 5-35); and addressing the carrier availability table using the channel selection data to determine if the first carrier selection is one of the available channels and, if so, initiating the call to the call destination using the prefix code via the channel selection data for the first carrier selection(page 4, lines 5-35).

Regarding claims 23,24,64-65 Lorimer teaches default route data and wherein if accessing the look-up table with the call destination information fails to locate corresponding data defining a preferred route code, the preferred route code is derived from the default route data (page 4, lines 5-35).

Regarding claim 26,66 Lorimer teaches wherein the updating information is transmitted as a multipoint broadcast to a plurality of mobile telephones (page 4, lines 5-35).

Regarding claims 30,31,70,71,79,80 Lorimer teaches wherein the updating information is communicated to the mobile telephone by detachably connecting the mobile telephone to a docking station and transmitting the updating information to the mobile telephone via the docking station (page 4, lines 5-35).

Regarding claims 36-38,81-82 Lorimer teaches wherein the docking station is connected to a telephone line and updating information is received from the control

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center in response to making a telephone call request to the control center via the telephone line (page 4, lines 5-35).

Regarding claims 44,45,75,77 Lorimer teaches wherein the telephone call is originated to communicate data comprising a type of data selected from a set of alternative types of data (page 4, lines 5-35).

- 3. Claims 27-29,68-69 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lorimer (EP 0724371 A1) and further in view of Rabe et al (6138010) and Skog (6427076).
- 4. Regarding claims 27-29,39,68-69 and 76 Lorimer teaches a wireless communication terminal (1) identifying a preferable one of at least two wireless networks (6,7,8) for establishing an outgoing call on the basis of an algorithm involving at least one parameter related to the networks. The terminal may be a mobile telephone handset, or a PC with radio communication capabilities for transmitting data. The algorithm typically identifies the cheapest available network for the outgoing call on the basis of current network tariff information (figs. 1,2). Lorimer and Rabe et al do not specifically teach information is transmitted to the mobile telephone as a web page.

In an analogous art, Skog teaches information is transmitted to the mobile telephone as a web page (col. 6, lines 35-60). Provides subscriber data records (SDR) that are bifurcated into related primarily to the wireless network and. The mobile station can receive, analyze, update and to possibly respond to information in the SDR, such as internet subscription parameters. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of

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Lorimer and Rabe et al by specifically adding feature information is transmitted to the mobile telephone as a web page in order to enhance system performance of web page to increasing the efficiency of the system as taught by Skog.

- 5. Claims 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lorimer (EP 0724371 A1) and further in view of Rabe et al (6138010) and Georges (6014546).
- 6. Regarding claims 32-35 Lorimer teaches a wireless communication terminal (1) identifying a preferable one of at least two wireless networks (6,7,8) for establishing an outgoing call on the basis of an algorithm involving at least one parameter related to the networks. The terminal may be a mobile telephone handset, or a PC with radio communication capabilities for transmitting data. The algorithm typically identifies the cheapest available network for the outgoing call on the basis of current network tariff information (figs. 1,2). Lorimer and Rabe et al do not specifically teach signals multiplexed in a television transmission signal, an optical cable network and satellite television network.

In an analogous art, Georges teaches signals multiplexed in a television transmission signal (col. 3,lines 17-31), an optical cable network (col. 3, line 20) and satellite television network (col. 4, lines 45-55). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Lorimer and Rabe et al by specifically adding feature signals multiplexed in a television transmission signal, an optical cable network and satellite television network

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in order to enhance system performance of docking station to increasing the efficiency of the system as taught by Georges.

- 7. Claims 40-43,46-47,72-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lorimer (EP 0724371 A1) and further in view of Rabe et al (6138010) and Dahlin et al (6122263).
- 8. Regarding claims 40-43,46-47,72-73 Lorimer teaches a method of routing a telephone call comprising adding a prefix code to a user generated call information such that the prefix code defines a preferred route via a switching network, wherein the prefix code comprises a string of network node addresses (page 3, lines 6-15, 52-58, page4, lines 5-35). Lorimer teaches a wireless communication terminal (1) identifying a preferable one of at least two wireless networks (6,7,8) for establishing an outgoing call on the basis of an algorithm involving at least one parameter related to the networks. The terminal may be a mobile telephone handset, or a PC with radio communication capabilities for transmitting data. The algorithm typically identifies the cheapest available network for the outgoing call on the basis of current network tariff information (figs. 1,2). Lorimer and Rabe et al do not specifically teach route via a packet switching network.

In an analogous art, Dahlin et al teaches route via a packet switching network (col. 5, lines 15-30). Method for optimizing transmission of information from packet switched fixed network to radio terminal determines whether first or second code is preferred for transmission of packet over radio link to radio terminal, coded information in third code is transcoded to either 1st or 2nd code and conveyed over radio link as

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determined. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Lorimer and Rabe et al by specifically adding feature route via a packet switching network in order to enhance system performance of wireless system to increasing the efficiency as taught by Dahlin et al.

Response to Arguments

9. Applicant's arguments with respect to claims 1-9,11-51,53-77,79-83,85-88 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is 703-306-3015.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **BANKS-HAROLD**, **MARSHA**, can be reached at 703-305-4379.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2684 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Khawar Iqbal

CHARLES APPIAH PRIMARY EXAMINER